

New York State Department of Transportation

Yellow Flag NB2222W005

By: Sahadeo Bhagwandin
Flag Date: March 28, 2022

Superseding Information:
This flag supersedes: YF NB2197W030

Structure Information

BIN: 1065318
Feature Carried: 278I278IX2M23027
Feature Crossed: 6TH AVENUE
Orientation: 8 - NORTHWEST
Region: 11 - NEW YORK CITY
County: KINGS
Political Unit: City of NEW YORK
Approximate Year Built: 1962
Posted Load Matches Inventory : Yes
Bridge Load Posting (Tons) : Not Posted for Load
Primary Owner: New York State Department of Transportation
Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party
Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder
This Bridge is not a Ramp
Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.
Date: March 28, 2022 10:00:00 AM
Of: NYSDOT Region 11

Signature Information

Signature: Sahadeo Bhagwandin, P.E. 088239-1
Date: April 07, 2022
Reviewed By: Robert Kemp
Date: April 07, 2022

Attachments: 5

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 247			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB2222W005 is superseding Yellow Flag No. NB2197W030

Location: Span 247, Girder G16 at Pier 247

Description: The web of the Girder at the upper cope has a 1.5" long diagonal crack (no change from the previous inspection) (Photos 2 and 3). A Dye Penetration test was performed on the crack to determine the extent of the crack.

The affected member of Girder G16 is a load path redundant built-up steel girder consisting of varying web depths of 3/8" thick and two equal leg angles (L 5" x 5" x 1/2") for the top and bottom flanges. The spacing between Girder G15 and G16 is 3'-9.75" on center and 6'-11" on center from G17.

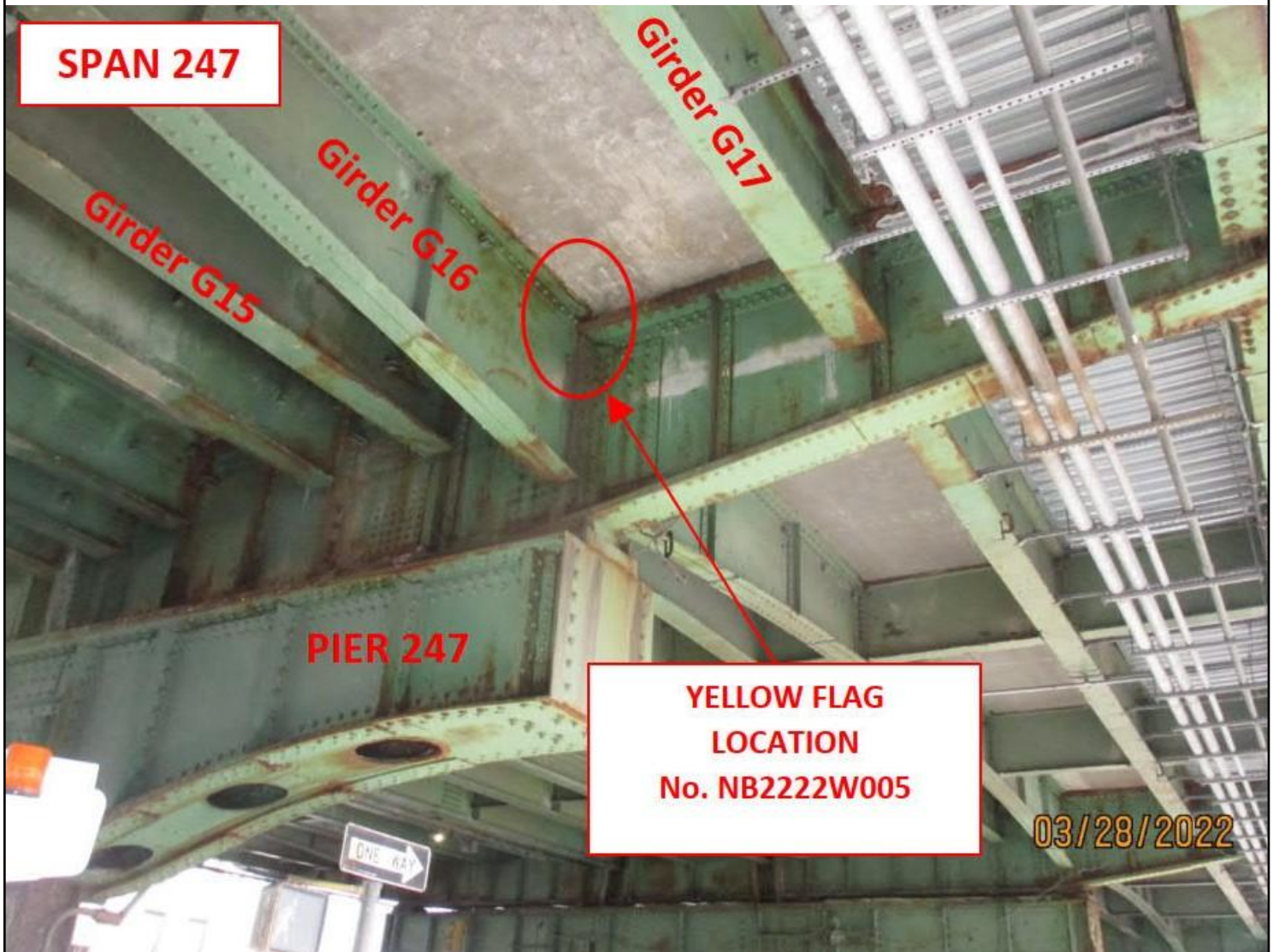
Notes:

- 1.No deformation was observed in any part of Girder G16 connection to Pier 247 cap beam.
- 2.The adjacent Girder G15 (left side) exhibits up to 20% section loss in the web along connection angles for full height x 3" W and above bottom flange for 1'L x 5" H.
- 3.Girder G17 (right side) right connection angle exhibits 20-25% section loss with 1/2" L x 1" H hole at the top and left connection angle has minor section loss. In addition, the web under the top cope exhibits 1/8" D section loss over a 15" H x 6" W area.(No significant changes from the previous inspection).
- 4.A double left lane closure on 3rd Avenue Eastbound between 22nd and 23rd streets with shadow vehicle and a 30' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

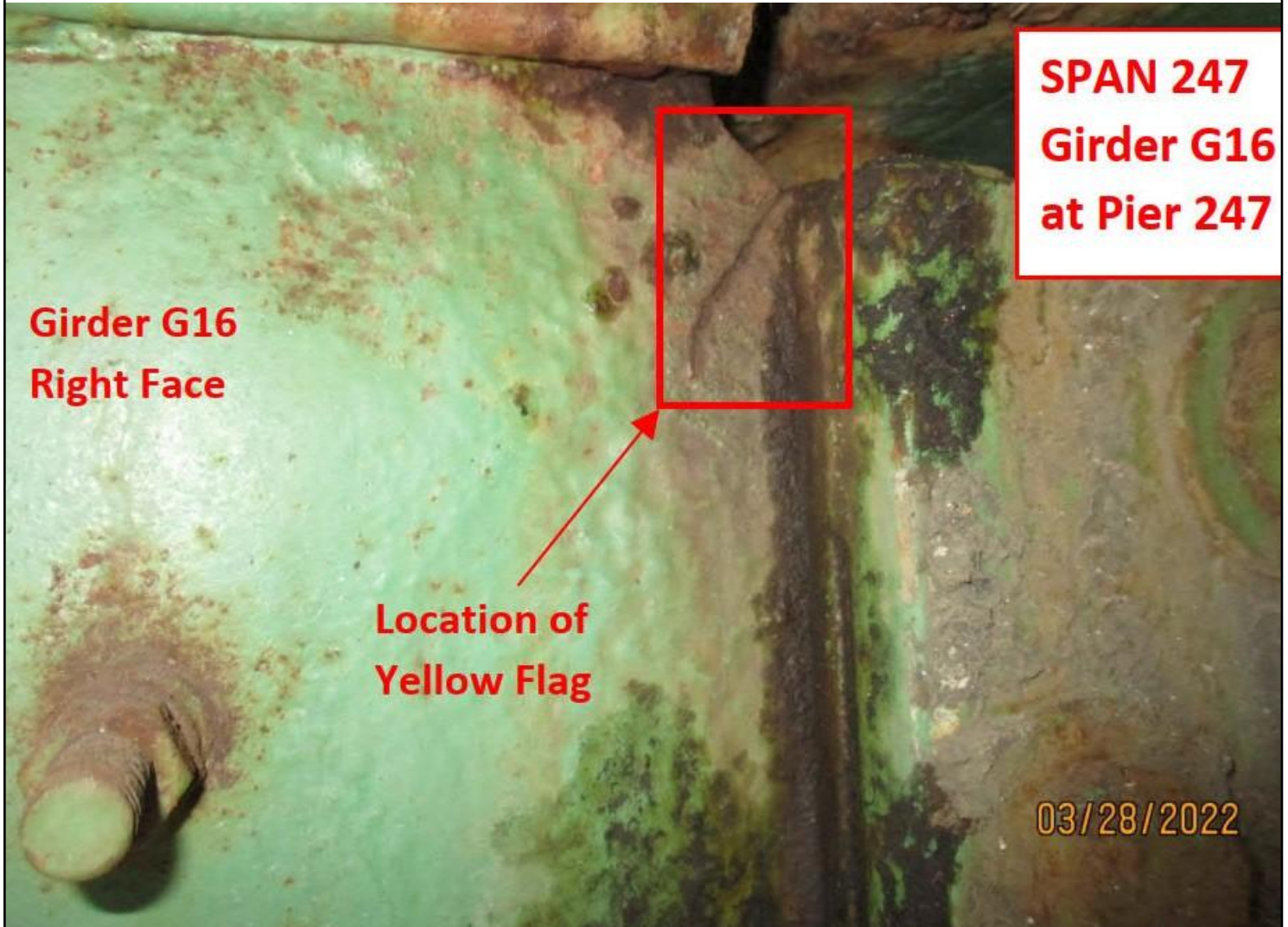
Photo Filename: Photo 1-4495 - edit.jpg



Attachment Description: Span 247, Girder G16 at Pier 247. General view of flagged location. Looking end left.

Photo Number: 2

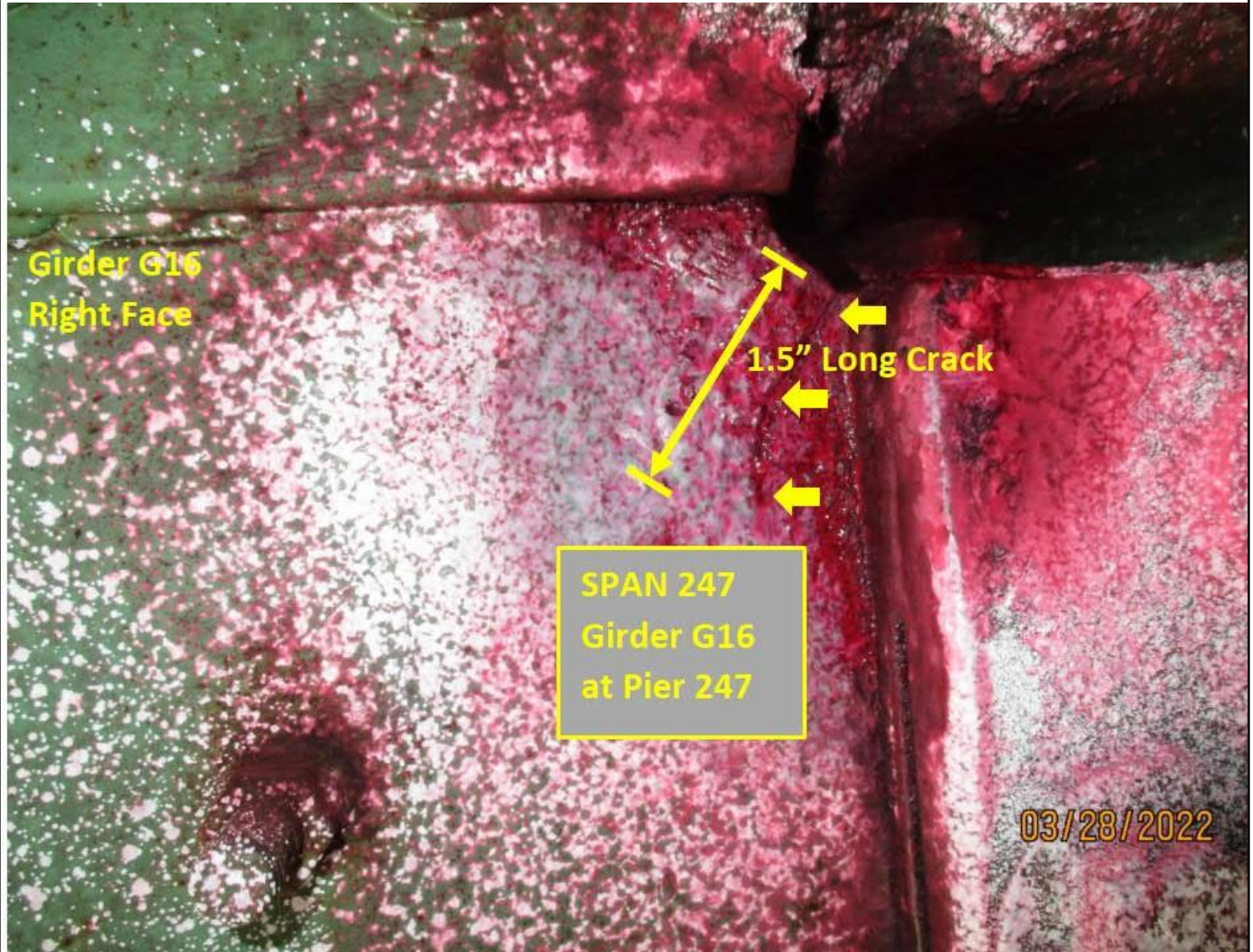
Photo Filename: Photo 2-4537 .jpg



Attachment Description: Span 247, Girder G16 at Pier 247. Close-up view of flagged location. Looking left.

Photo Number: 3

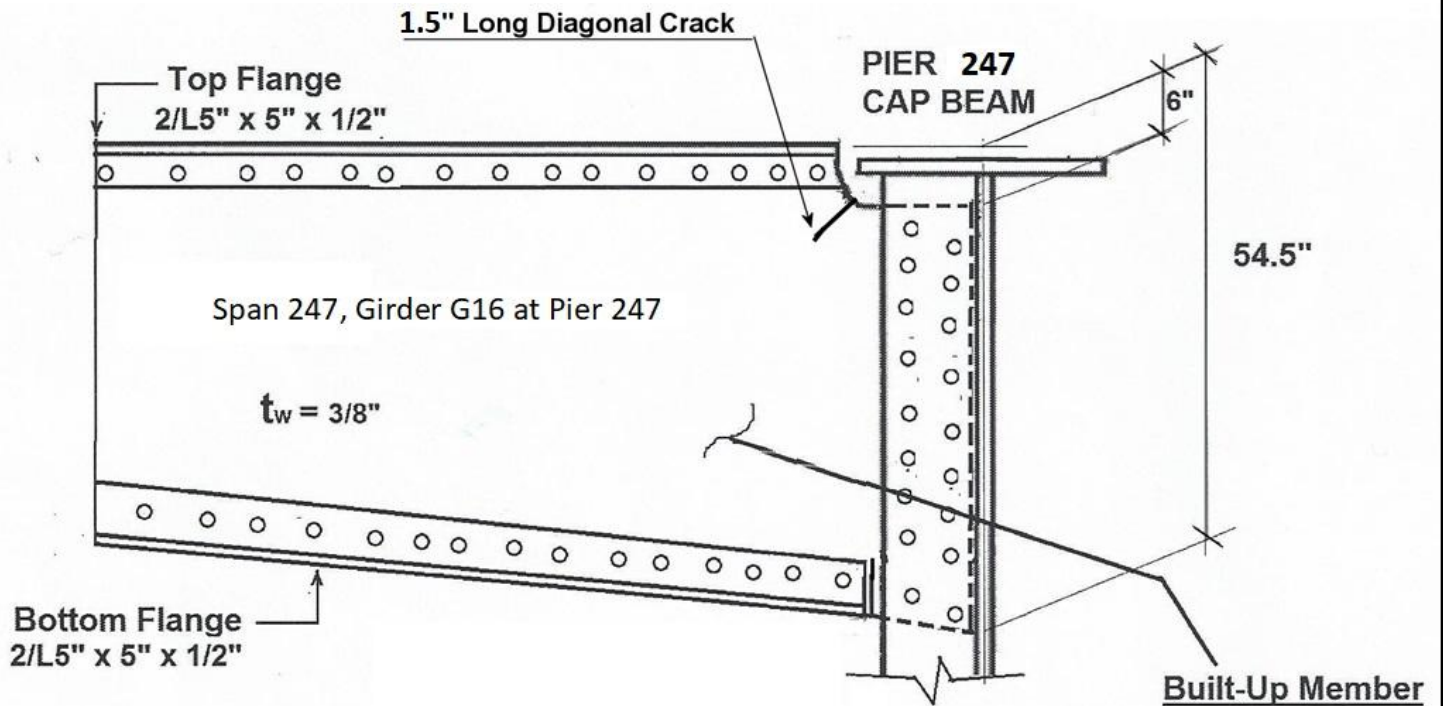
Photo Filename: Photo 3-4573.jpg



Attachment Description: Span 247, Girder G16 at Pier 247. Close-up view of 1.5" long diagonal crack at the upper cope. Looking Left.

Photo Number: 4

Photo Filename: SN 249 G16 _ Right Face _ Sketch.jpg



Built-Up Member Properties

Vary depth web: 54.5" b-to-b Ls @ Piers 246 and 247 and 33" @ midspan

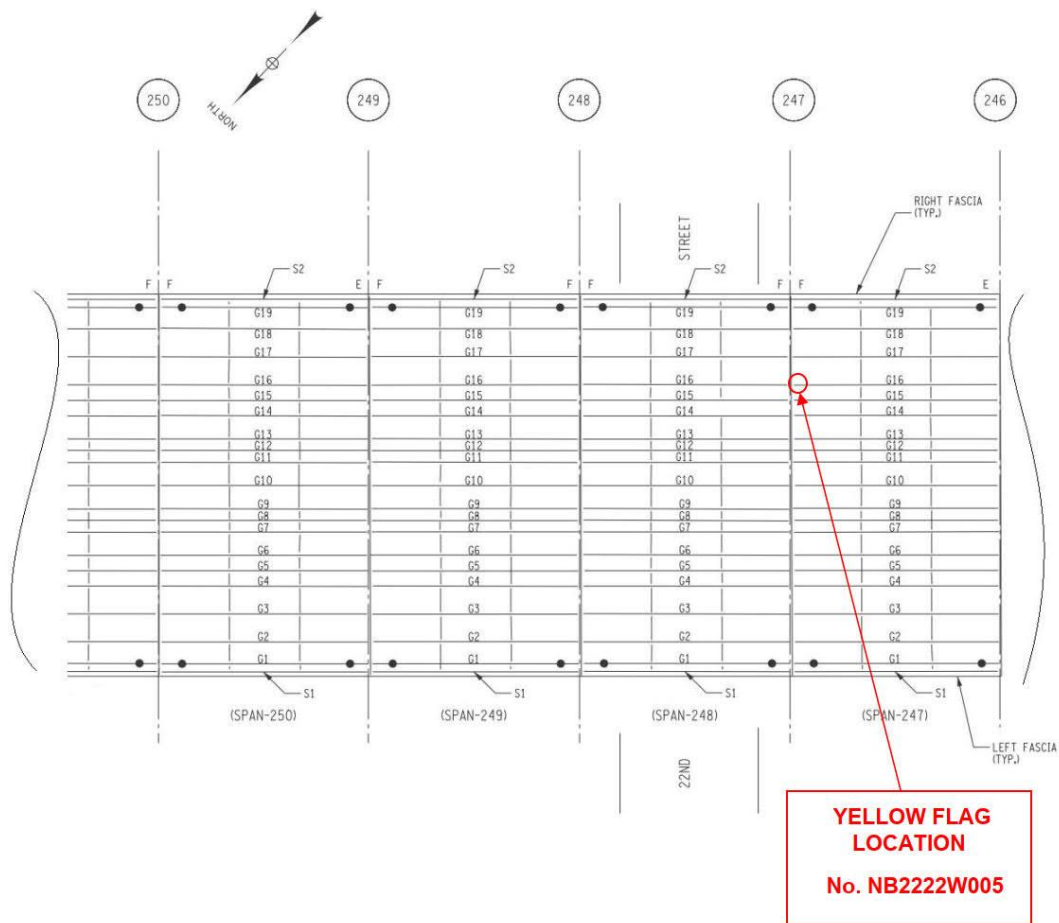
Web thickness = 3/8"

Bottom and Top Flanges are two equal leg angles L 5" x 5" x 1/2"

Attachment Description: Span 246 G16 at Pier 247 Sketch

Photo Number: 5

Photo Filename: Span 247 G16 at Pier 247 Framing Plan.jpg



Attachment Description: Span 247 G16 at Pier 247 Framing Plan